



Weston Solutions, Inc.  
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Chicago, IL 60606-2901  
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www.westonsolutions.com

16 October 2003

Mr. Fred Micke  
On-Scene Coordinator  
United States Environmental Protection Agency  
Emergency Response Branch  
77 West Jackson Boulevard  
Chicago, Illinois 60604

EPA Region 5 Records Ctr.



366830

Contract No. 68-W-00-119  
TDD No.: S05-0301-007  
DCN: 338-2A-ADMC

Subject: Letter Report of Results of Asbestos Sampling  
IWI, Inc. Site  
Summit, Cook County, Illinois

Dear Mr. Micke:

The Weston Solutions, Inc. (WESTON®), Superfund Technical Assessment and Response Team (START) was tasked by United States Environmental Protection Agency (U.S. EPA) under Technical Direction Document (TDD) S05-0301-007 to assist On-Scene Coordinator (OSC) Mr. Fredrick Micke in collecting samples of presumed asbestos containing materials (PACM) at the IW, Inc. Site in Summit, Cook County, Illinois. This letter report documents the sampling activities that took place on 26 and 27 March 2003 and presents the sample results in support of the proposed Emergency Renovation of site buildings that are in imminent danger of collapse.

### SITE DESCRIPTION

The IW, Inc. Site is located at 7738 West 61<sup>st</sup> Place in Summit, Cook County, Illinois. The geographic coordinates of the site are 41° 46' 47" north latitude and 87° 48' 51" west longitude. The site is approximately 1.7 acres, and is square-shaped (Attachment A). In the recent past, the site had been used as a chemical drum and tote reconditioning facility. Key features at the site during the time of the asbestos sampling included two dilapidated buildings, the Main Building and the Stack Building, two large boilers and a smoke stack inside the Stack Building, large debris piles, three old building foundations, a railroad tanker car, a water tower (reservoir has been removed), above-ground storage tanks (ASTs), 55-gallon drums, and chemical totes (Attachment B). Evidence of vandalism on site is extensive; graffiti is present on most of the site structures.

The site is bounded to the south by 61<sup>st</sup> Place and in all other directions by private property. The east side of the property is adjacent to a two-story, concrete, commercial building. The west side of the property

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is adjacent to a brick, commercial warehouse. The north side of the property is adjacent to the parking area of a trucking company. Across 61<sup>st</sup> Place to the south are residential homes. Chain-link fences owned by the neighboring property owners surround the site on the north and west sides. Permanent fencing has been installed along the south side of the site property and a portion of the north side of the site property by the U.S. EPA.

Within 1/4 mile of the site boundary are recreational-use water bodies. The Chicago Sanitary and Ship Canal is located less than 3/4 mile west of the site. The Des Plaines River is located approximately 1 mile west of the site (Attachment A).

On 12 March 2003, a visual survey of the site was conducted for asbestos. The survey results were documented in a Letter Report (Weston, 21 March 2003). The inspection results indicated that there was PACM on site in eight areas; the insulation on the rail tanker car, the insulation in the boilers and boiler doors in the Stack Building, the bricks and mortar of the chimney in the Stack Building, the roofing material on all buildings on site, the tar paper insulation on the water tower downpipe, the transite tiles in a debris pile, the steam pipe wrap, and the debris in Room 4 of the main building. Following the visual inspection, a sampling plan was developed for analysis of the PACM on site. Sampling was performed by Ms. Sarah Meyer and Mr. David Wojcik, a WESTON Asbestos Inspector, who is a licensed building inspector in the State of Illinois (License No: 100-4453).

Demolition of Rooms 1 and 2, and partial demolition of Room 3, of the Main Building had been completed by the U.S. EPA Emergency and Rapid Response Service (ERRS) contractor at the time of the sampling, and debris from this action was in piles within the room foundations. The remaining rooms of the main building, the Stack Building, and Building 3 were still standing; however, they were in very poor condition, and were in imminent danger of collapse. Drums, totes and containers that were also in very poor condition, some closed and some open, were located in every room on site and in the yard.

The asbestos sampling was performed in order to positively identify asbestos containing materials (ACM) on site. In addition to the PACM identified during the initial site inspection, three other materials were identified as PACM and sampled during the sampling event. The following materials were sampled and submitted for asbestos analysis:

- The suspect transite tiles in the debris pile (Sample IWI-032603-A01) south of the Stack Building (Photos 1 and 2);
- The insulation (Sample IWI-032603-A02 to A04) on the railroad tanker car that is parked to the west of the Stack Building (Photo 3);



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- The suspect air-cell insulation (Sample IWI-032603-A05) on the doors to the boilers in the Stack Building (Photos 4 and 5);
- The packing material (Sample IWI-032603-A06 to A08) in the boilers (Photo 4);
- The insulation (Sample IWI-032603-A09) on the fire door on the south wall of the Boiler Room in the Stack Building (Photo 6);
- The wrap (Sample IWI-032603-A14) on the steam pipe on the second floor of Room 4 of the Main Building (Photo 13);
- The insulation (Sample IWI-032603-A10 to A12) on the day tank in the southwest corner of the Boiler Room in the Stack Building (Photo 7);
- The roofing tar paper (Sample IWI-032603-A13 to A15) that was collected from the floor of Room 5 of the Main Building (Note: Direct sampling of the roofing material was not possible given the that all structures on site were in imminent danger of collapse. All roofing material was presumed to be non-friable asbestos containing material.);
- The tar paper insulation (Sample IWI-032603-A16 to A18) on the water tower downpipe (Photo 8);
- Three components of the chimney in the Stack Building were sampled (Photos 9-12):
  - Bricks (Sample IWI-032703-A03, A04, and A07);
  - Mortar (Sample IWI-032703-A05, A06, and A08); and
  - Insulation between the inner and outer bricks in the chimney (Sample IWI-032703-A01, A02, A09, and A10).
- The wall insulation (Sample IWI-032703-A11 to A13) from the west wall of the office in Room 4 of the Main Building.

A total of 13 investigative samples were collected for analysis. Based on his experience, Mr. Wojcik identified four materials as asbestos by visual inspection; the suspect transite tiles, the suspect air-cell on the boiler doors, the fire door insulation, and the steam pipe wrap. These materials were sampled and submitted for analysis. Three duplicate samples were collected from each of the other suspect materials. A duplicate sample was collected from the chimney insulation (A10).



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All samples were packed in zip-lock bags and bubble-wrap and placed into clasp envelopes. Samples were hand-delivered by START under chain of custody to EMSL Analytical, Inc., in Chicago, Illinois. Analysis of samples was performed via EPA 600/R-93-115 Method using Polarized Light Microscopy (PLM). Analytical results are presented in the table in Attachment C.

## **ANALYTICAL RESULTS**

Six investigative samples tested positive for asbestos in the form of chrysotile. The samples that contained asbestos were collected from the following materials:

- The transite tiles (Sample IWI-032603-A01) in the debris pile south of the Stack Building (60% chrysotile);
- The insulation (Sample IWI-032603-A02 to A04) on the railroad tanker car that is parked to the west of the Stack Building (5% chrysotile);
- The aircell insulation (Sample IWI-032603-A05) on the doors to the boilers in the Stack Building (55% chrysotile);
- The packing material (Sample IWI-032603-A06 to A08) in the boilers (55-60% chrysotile);
- The insulation (Sample IWI-032603-A09) on the fire door on the south wall of the Boiler Room in the Stack Building (45% chrysotile); and
- The wrap (Sample IWI-032603-A14) on the steam pipe on the second floor of Room 4 of the Main Building (45% chrysotile).

## **CONCLUSIONS AND RECOMMENDATIONS**

Chrysotile asbestos has been positively identified by laboratory analysis in six materials on site. In addition, the roofing material is assumed to be non-friable asbestos. On site construction or demolition activity where asbestos is present is regulated by 29 Code of Federal Regulations (CFR) Part 1926.1101, as well as by 40 CFR Part 61 Subpart M. As plans are developed for further demolition of site structures and removal of on-site debris, the asbestos content of these materials



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should be taken into consideration. The roofing material is non-friable and can be disposed of as construction waste.

If you have any questions or require additional information regarding this report, please call us at 312-424-3300.

Very truly yours,  
WESTON SOLUTIONS, INC.

Sarah Meyer  
START Site Lead

Richard H. Mehl,  
Site Manager

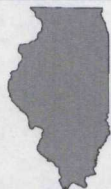
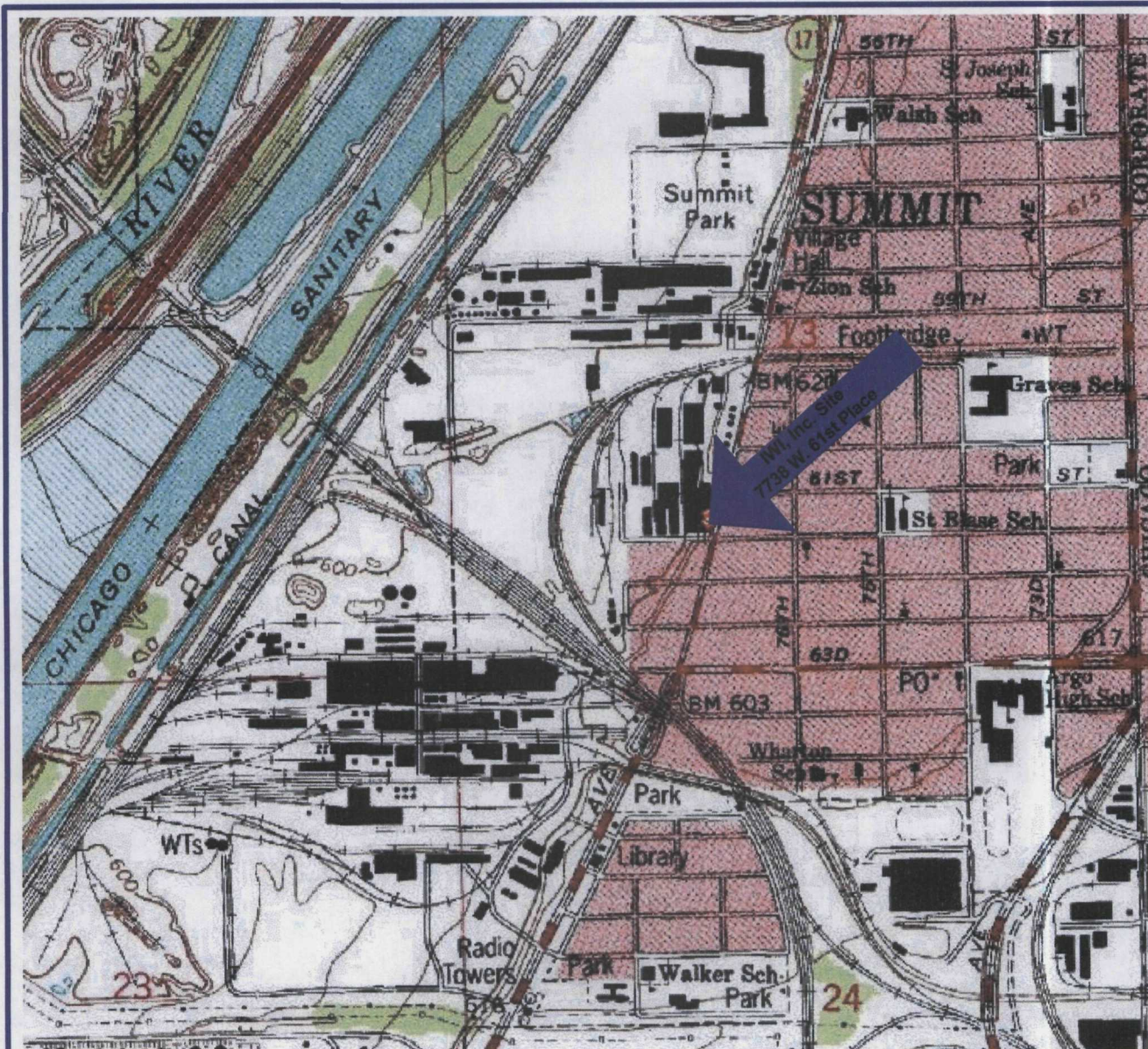
Attachments: A - Topographical Site Location Map  
B - Site Features Map  
C - Results of Analysis of PACM on Site for Asbestos Content  
D - Sample Locations Map  
E - Photo Log  
F - Asbestos Samples Chain of Custody  
G - Laboratory Data Report

cc: Gail Nabasny, START Project Officer  
David Wojcik, WESTON  
Site File

**ATTACHMENT A**

**TOPOGRAPHICAL SITE LOCATION MAP**





0 1/2 1 1/2 2 3 4 5 Km

0 1/2 1 1/2 2 3 4 5 Mi

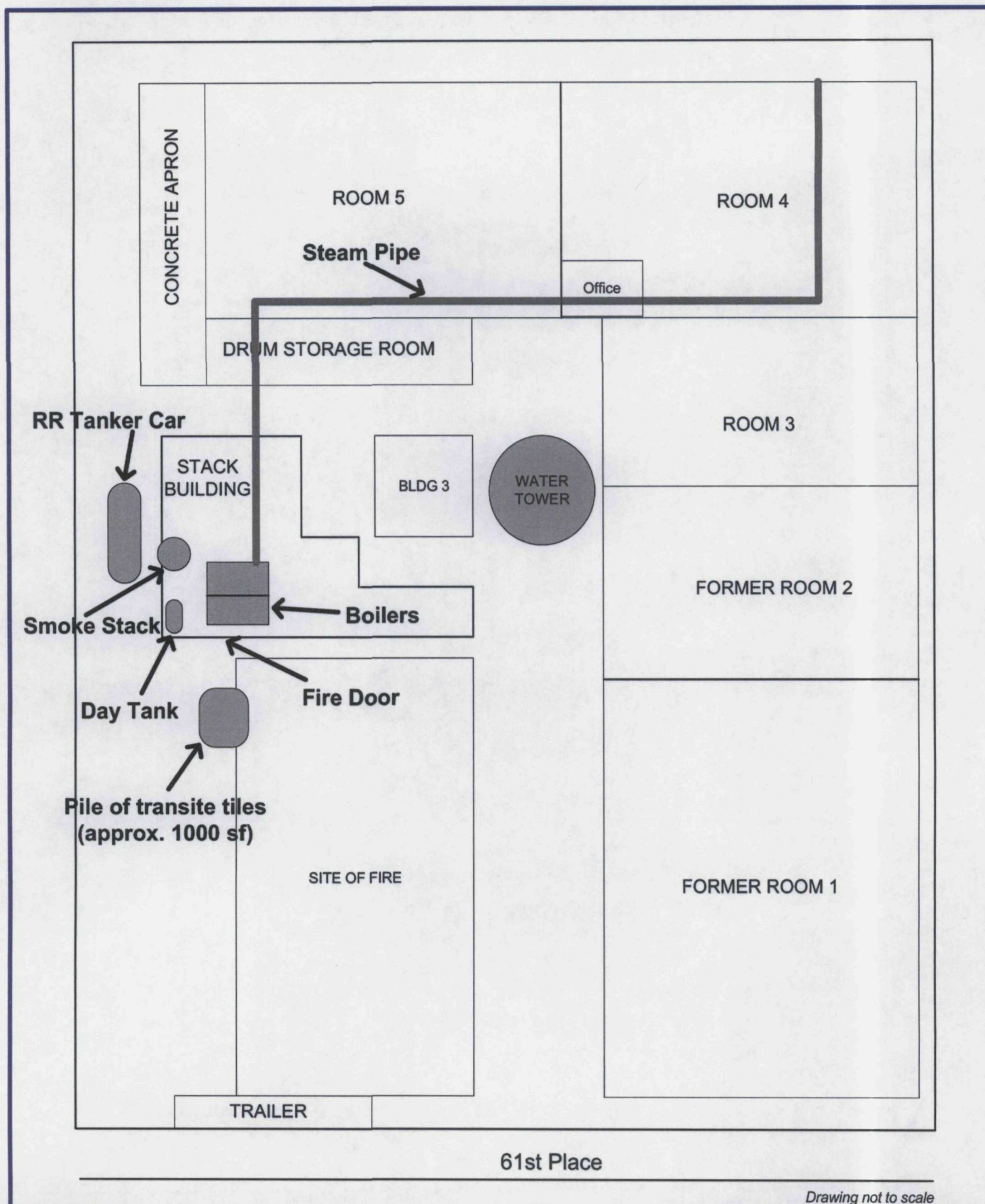


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**Attachment A**  
**Topographical Site Location Map**  
IWI, Inc. Site  
7738 W. 61st Place  
Summit, Cook County, Illinois

**ATTACHMENT B**  
**SITE FEATURES MAP**





Drawing not to scale



20 N. Wacker Drive  
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Chicago, IL 60606

**Attachment B**  
**Site Features Map**  
IWI, Inc. Site  
Summit, Cook County, Illinois



**ATTACHMENT C**

**RESULTS OF ANALYSIS OF PACM ON SITE FOR ASBESTOS CONTENT**

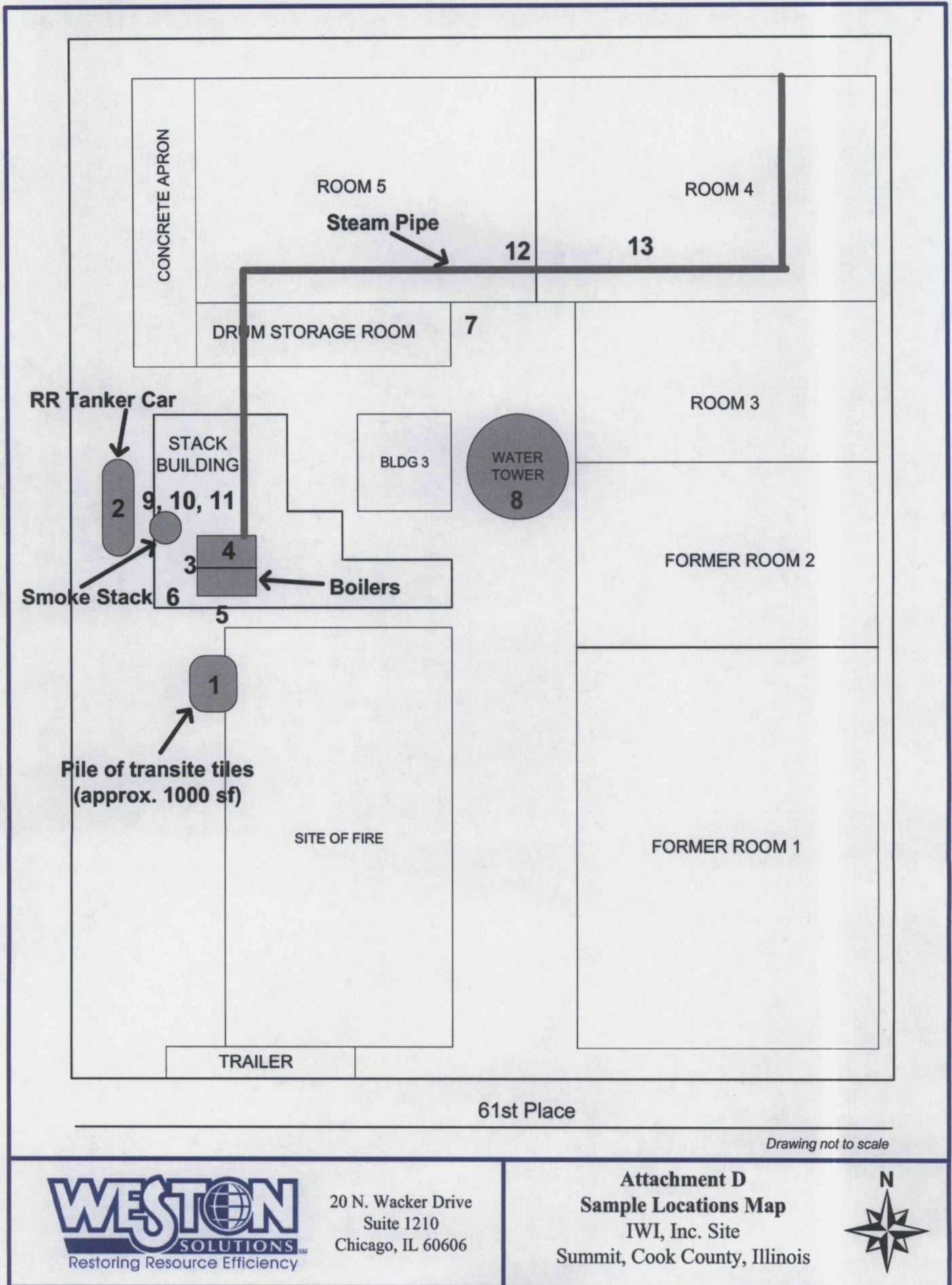
**Attachment C:**  
**Results of Analysis of PACM on Site for Asbestos Content**  
**IWI, Inc., Summit, IL**

Sample Description	Sample Location	Sample Location on Map	Sample Number	% Asbestos	Type of Asbestos	Final Result
Transite Tiles	Debris pile south of Stack Building	1	IWI-032603-A01	60	Chrysotile	Positive
RR Tanker Car Insulation	RR Tanker Car west of Stack Building	2	IWI-032603-A02	5	Chrysotile	Positive
			IWI-032603-A03	5	Chrysotile	
			IWI-032603-A04	5	Chrysotile	
Air-cell on Boiler Doors	Boiler Room in Stack Building	3	IWI-032603-A05	55	Chrysotile	Positive
Boiler Packing	Boiler Room in Stack Building	4	IWI-032603-A06	55	Chrysotile	Positive
			IWI-032603-A07	55	Chrysotile	
			IWI-032603-A08	60	Chrysotile	
Fire Door Insulation	South wall of Boiler Room in Stack Building	5	IWI-032603-A09	45	Chrysotile	Positive
Day Tank Insulation	Tank in SW corner of Boiler Room in Stack Building	6	IWI-032603-A10	N.D.	N.A.	Negative
			IWI-032603-A11	N.D.	N.A.	
			IWI-032603-A12	<1%	Chrysotile	
Roofing Tar Paper	Tank in SW corner of Boiler Room in Stack Building	7	IWI-032603-A13	N.D.	N.A.	Negative
			IWI-032603-A14	N.D.	N.A.	
			IWI-032603-A15	N.D.	N.A.	
Water Tower Downpipe Tarpaper Insulation	Water tower	8	IWI-032603-A16	N.D.	N.A.	Negative
			IWI-032603-A17	N.D.	N.A.	
			IWI-032603-A18	N.D.	N.A.	
Stack Brick	Inner and outer brick from chimney in Stack Building	9	IWI-032703-A03	N.D.	N.A.	Negative
			IWI-032703-A04	N.D.	N.A.	
			IWI-032703-A07	N.D.	N.A.	
Stack Mortar	From chimney in Stack Building	10	IWI-032703-A05	N.D.	N.A.	Negative
			IWI-032703-A06	N.D.	N.A.	
			IWI-032703-A08	N.D.	N.A.	
Stack Insulation	Between inner and outer bricks in chimney in Stack Building	11	IWI-032703-A01	N.D.	N.A.	Negative
			IWI-032703-A02	N.D.	N.A.	
			IWI-032703-A09*	N.D.	N.A.	
			IWI-032703-A10*	N.D.	N.A.	
Wall Insulation	Office in SW corner of Room 4 of the Main Building	12	IWI-032703-A11	N.D.	N.A.	Negative
			IWI-032703-A12	N.D.	N.A.	
			IWI-032703-A13	N.D.	N.A.	
Steam Pipe Wrap	Second floor of Room 4 of the Main Building	13	IWI-032703-A14	45	Chrysotile	Positive

\* Quality Assurance/Quality Control split Samples

ND - Non Detect

**ATTACHMENT D**  
**SAMPLE LOCATIONS MAP**



**ATTACHMENT E**

**PHOTO LOG**





**SITE:** IWI, Inc. Site

**DATE:** 26 March 2003

**PHOTO NO:** 1

**DIRECTION:** down

**SUBJECT:** Transite tile in debris pile south of Stack Building. Sample collected here: IWI-032603-A01

**PHOTOGRAPHER:** S. Meyer



**SITE:** IWI, Inc. Site

**DATE:** 26 March 2003

**PHOTO NO:** 2

**DIRECTION:** W

**SUBJECT:** Pile of demolition debris on site, south of Stack Building. Notice transite tile in center of photo.

**PHOTOGRAPHER:** S. Meyer



**SITE:** IWI, Inc. Site

**DATE:** 26 March 2003

**PHOTO NO:** 3

**DIRECTION:** N

**SUBJECT:** Railroad tanker car with PACM coating on it. Samples collected here for asbestos: IWI-032603-A02, IWI-032603-A03, and IWI-032603-A04.

**PHOTOGRAPHER:** S. Meyer



**SITE:** IWI, Inc. Site

**DATE:** 26 March 2003

**PHOTO NO:** 4

**DIRECTION:** E

**SUBJECT:** South boiler in Stack Building with PACM insulation in boiler and air cell in door. Samples IWI-032603-A05 (aircell) and IWI-032603-A06 (insulation) collected here.

**PHOTOGRAPHER:** S. Meyer



**SITE:** IWI, Inc. Site

**DATE:** 26 March 2003

**PHOTO NO:** 5

**DIRECTION:** NE

**SUBJECT:** North boiler in Stack Building. Insulation samples IWI-032603-A07 and IWI-032603-A08 collected here.

**PHOTOGRAPHER:** S. Meyer



**SITE:** IWI, Inc. Site

**DATE:** 26 March 2003

**PHOTO NO:** 6

**DIRECTION:** SE

**SUBJECT:** Fire door on south wall of Stack Building that contains PACM. Sample IWI-032603-A09 collected here.

**PHOTOGRAPHER:** S. Meyer





**SITE:** IWI, Inc. Site

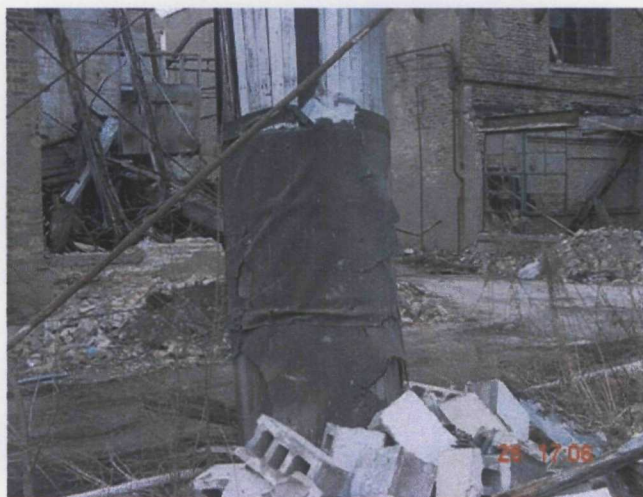
**DATE:** 26 March 2003

**PHOTO NO:** 7

**DIRECTION:** NE

**SUBJECT:** Partially buried day tank in southwest corner of boiler room in Stack Building with PACM insulating cover. Samples IWI-032603-A10, IWI-032603-A11, and IWI-032603-A12 sampled here.

**PHOTOGRAPHER:** S. Meyer



**SITE:** IWI, Inc. Site

**DATE:** 26 March 2003

**PHOTO NO:** 8

**DIRECTION:** NW

**SUBJECT:** Tar paper wrap on water tower downtube. Samples IWI-032603-A16, IWI-032603-A17, and IWI-032603-A18 were collected here.

**PHOTOGRAPHER:** S. Meyer



**SITE:** IWI, Inc. Site

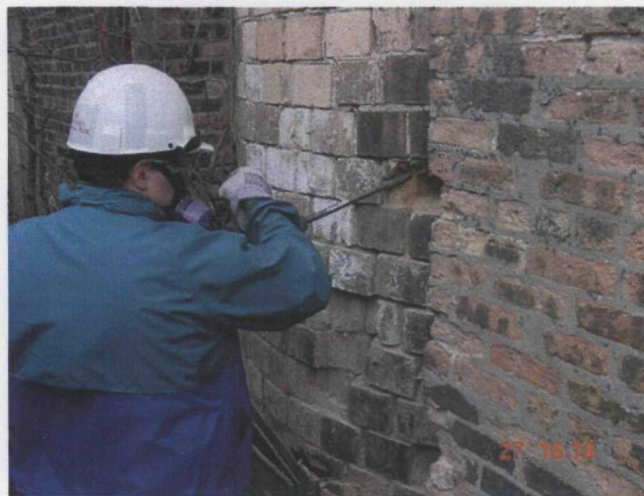
**DATE:** 27 March 2003

**PHOTO NO:** 9

**DIRECTION:** NE

**SUBJECT:** Inside of hole in chimney of Stack Building that was made for asbestos sampling, west side of chimney.

**PHOTOGRAPHER:** S. Meyer



**SITE:** IWI, Inc. Site

**DATE:** 27 March 2003

**PHOTO NO:** 10

**DIRECTION:** NE

**SUBJECT:** START Wojcik using power hammer to cut into west side of chimney of Stack Building for asbestos sampling.

**PHOTOGRAPHER:** S. Meyer



**SITE:** IWI, Inc. Site

**DATE:** 27 March 2003

**PHOTO NO:** 11

**DIRECTION:** NE

**SUBJECT:** Samples taken of insulation, brick, and mortar on west side of chimney of Stack Building, samples IWI-032703-A01 through -A06.

**PHOTOGRAPHER:** S. Meyer



**SITE:** IWI, Inc. Site

**DATE:** 27 March 2003

**PHOTO NO:** 12

**DIRECTION:** N

**SUBJECT:** START Wojcik using power hammer to cut into east side of chimney of Stack Building for asbestos sampling.

**PHOTOGRAPHER:** S. Meyer





**SITE:** IWI, Inc. Site

**DATE:** 27 March 2003

**PHOTO NO:** 13

**DIRECTION:** W

**PHOTOGRAPHER:** S. Meyer

**SUBJECT:** Sample of pipe wrap for asbestos content, second floor of Room 4 of Main Building, west end. Sample IWI-032703-A14.

**ATTACHMENT F**

**ASBESTOS SAMPLE CHAIN OF CUSTODY**

# ASBESTOS BULK SAMPLE CHAIN OF CUSTODY

PAGE 1 OF 2

**FACILITY** IWI Earth Tech/WESTON SOLUTIONS INC.  
**ADDRESS** 7738 W. 61<sup>st</sup> Place 3 First National Plaza, 70 W. Madison St.  
Suite 1990  
Chicago, IL. 60604  
**CONTRACT NO**  
**DATE OF SAMPLING** 26 and 27 March 2003 **PHONE** 708-496-8156  
**WORK ORDER NO** 12634.001.002.0338.00 **FAX** 708-496-8091

SAMPLE AND HOMOGENEOUS AREA DESCRIPTION	FIELD ID #	LAB ID #	FUNCTIONAL FLOOR #	FRIABLE ? Y OR N	PHOTO #
TRANSITE TILES	IWI-032603-A01		JEFFIS PILE	N	
RR TANKER CAR COATING	IWI-032603-A02		W STACK BLDG	Y	
RR TANKER CAR COATING	IWI-032603-A03		W STACK BLDG	Y	
RR TANKER CAR COATING	IWI-032603-A04		W STACK BLDG	Y	
BOILER DOOR INSULATION	IWI-032603-A05		BOILER ROOM	Y	
BOILER PACKING	IWI-032603-A06		BOILER RM.	Y	
BOILER PACKING	IWI-032603-A07		BOILER RM.	Y	
BOILER PACKING	IWI-032603-A08		BOILER RM.	Y	
PIPE DOOR INSULATION	IWI-032603-A09		BOILER RM.	Y	
DAY TANK INSULATION	IWI-032603-A10		BOILER RM.	Y	
DAY TANK INSULATION	IWI-032603-A11		BOILER RM.	Y	
DAY TANK INSULATION	IWI-032603-A12		BOILER RM.	Y	
ROOFING TARPAPER	IWI-032603-A13		ROOM 5	Y	
ROOFING TARPAPER	IWI-032603-A14		ROOM 5	Y	
ROOFING TARPAPER	IWI-032603-A15		ROOM 5	Y	
TARPAPER, WATER TOWER	IWI-032603-A16		YARD	Y	
TARPAPER, WATER TOWER	IWI-032603-A17		YARD	Y	

**SAMPLES TAKEN BY:** David Wojcik *David Wojcik* **ACCREDITATION #:** 100-4453

**DATE OF SAMPLING:** 3/26/03 & 3/27/03

**SAMPLES DELIVERED BY:** Hand delivery

**RECEIVED AT LAB BY:** *J. Carr* **ACCREDITATION #:**

**DATE & TIME OF RECEIPT:** 4/1/03 5:47pm

**CONDITION OF SAMPLES WHEN RECEIVED AT LAB:**

**SAMPLES LOGGED IN BY & DATE:**

**NOTE:** ALL SAMPLING PERFORMED ON THE PLM (ESTIMATION) BASIS.

TURN AROUND TIME NEEDED : 3 DAYS

PLEASE FAX RESULTS TO: SARAH MEYER  
 FAX 708-496-8091  
 phone 708-496-8156

# ASBESTOS BULK SAMPLE CHAIN OF CUSTODY

PAGE 2 OF 2

**FACILITY** IWI Earth Tech/WESTON SOLUTIONS INC.  
**ADDRESS** 7738 W. 61<sup>st</sup> Place 3 First National Plaza, 70 W. Madison St.  
Suite 1990  
Chicago, IL. 60604  
**CONTRACT NO**  
**DATE OF SAMPLING** 26 and 27 March 2003 **PHONE** 708-496-8156  
**WORK ORDER NO** 12634.001.002.0338.00 **FAX** 708-496-8091

SAMPLE AND HOMOGENEOUS AREA DESCRIPTION	FIELD ID #	LAB ID #	FUNCTIONAL FLOOR #	FRIABLE ? Y OR N	PHOTO #
TARPAPER, WATER TOWER		IWI-032703-A18	YARD	Y	
STACK INSULATION		IWI-032703-A01	1	Y	
STACK INSULATION		IWI-032703-A02	1	Y	
STACK INSULATION <sup>4</sup> BRICK		IWI-032703-A03	1	N	
STACK BRICK		IWI-032703-A04	1	N	
STACK MORTAR		IWI-032703-A05	1	N	
STACK MORTAR		IWI-032703-A06	1	N	
STACK BRICK		IWI-032703-A07	1	N	
STACK MORTAR		IWI-032703-A08	1	N	
STACK INSULATION (SPLIT)		IWI-032703-A09	1	Y	
STACK INSULATION (SPLIT)		IWI-032703-A10	1	Y	
WALL INSULATION ROOM 4 OFFICE		IWI-032703-A11	1	N	
WALL INSULATION ROOM 4 OFFICE		IWI-032703-A12	1	N	
WALL INSULATION ROOM 4 OFFICE		IWI-032703-A13	1	N	
FIRE WRAP ROOM 4		IWI-032703-A14	2	Y	

**SAMPLES TAKEN BY:** David Wojcik *David Wojcik* **ACCREDITATION #:** 100-4453

**DATE OF SAMPLING:** 3/26/03 & 3/27/03

**SAMPLES DELIVERED BY:** Hand delivery

**RECEIVED AT LAB BY:** *N. Child* **ACCREDITATION #:**

**DATE & TIME OF RECEIPT:** 4/1/05 5:47p

**CONDITION OF SAMPLES WHEN RECEIVED AT LAB:**

**SAMPLES LOGGED IN BY & DATE:**

**NOTE: ALL SAMPLING PERFORMED ON THE PLM (ESTIMATION) BASIS.**

TURN AROUND TIME NEEDED: 3 DAYS

PLEASE FAX RESULTS TO: SARAH MEYER  
 FAX 708-496-8091  
 708-496-8156

## Asbestos sampling log

date	time	sample name	
3/26/2003	16:00	IWI-032603-A01	Transite tiles in pile south of Stack Building
3/26/2003	16:10	IWI-032603-A02	South end of RR tanker car west of Stack Building
3/26/2003	16:12	IWI-032603-A03	Middle of east side of RR tanker car, west of Stack Building
3/26/2003	16:14	IWI-032603-A04	North end of RR tanker car, west of Stack Building
3/26/2003	16:20	IWI-032603-A05	Air cell insulation from door on south boiler, Stack Building
3/26/2003	16:25	IWI-032603-A06	Boiler packing insulation, south boiler
3/26/2003	16:26	IWI-032603-A07	Boiler packing insulation, north boiler
3/26/2003	16:28	IWI-032603-A08	Boiler packing insulation, north boiler
3/26/2003	16:31	IWI-032603-A09	Fire door insulation, south edge of Stack Building, near boilers
3/26/2003	16:34	IWI-032603-A10	Insulation on day tank, SW corner of boiler room, Stack Building
3/26/2003	16:35	IWI-032603-A11	Insulation on day tank, SW corner of boiler room, Stack Building
3/26/2003	16:37	IWI-032603-A12	Insulation on day tank, SW corner of boiler room, Stack Building
3/26/2003	16:45	IWI-032603-A13	Roofing tarpaper, from floor of Room 5
3/26/2003	16:47	IWI-032603-A14	Roofing tarpaper, from floor of Room 5
3/26/2003	16:48	IWI-032603-A15	Roofing tarpaper, from floor of Room 5
3/26/2003	17:00	IWI-032603-A16	Tarpaper insulation from water tower downpipe
3/26/2003	17:03	IWI-032603-A17	Tarpaper insulation from water tower downpipe
3/26/2003	17:05	IWI-032603-A18	Tarpaper insulation from water tower downpipe
3/27/2003	16:20	IWI-032703-A01	Stack insulation, west side of stack
3/27/2003	16:25	IWI-032703-A02	Stack insulation, west side of stack
3/27/2003	16:30	IWI-032703-A03	Stack brick, west side of stack
3/27/2003	16:32	IWI-032703-A04	Stack brick, west side of stack
3/27/2003	16:33	IWI-032703-A05	Stack mortar, west side of stack
3/27/2003	16:35	IWI-032703-A06	Stack mortar, west side of stack
3/27/2003	16:58	IWI-032703-A07	Stack brick, east side of stack
3/27/2003	17:00	IWI-032703-A08	Stack mortar, east side of stack
3/27/2003	17:05	IWI-032703-A09	Stack insulation, west side of stack, split
3/27/2003	17:05	IWI-032703-A10	Stack insulation, west side of stack, split
3/27/2003	17:12	IWI-032703-A11	Wall insulation, office, first floor, Room 4
3/27/2003	17:14	IWI-032703-A12	Wall insulation, office, first floor, Room 4
3/27/2003	17:15	IWI-032703-A13	Wall insulation, office, first floor, Room 4
3/27/2003	17:20	IWI-032703-A14	Pipe wrap, second floor, Room 4

1000 7/1 1038 13

**ATTACHMENT G**

**LABORATORY DATA REPORT**



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Customer ID: +26EARTH  
 Customer PO:  
 Received: 04/01/03 5:47 AM  
 EMSL Order: 260300209  
 EMSL Project ID:  
 Analysis Date: 4/7/2003

### Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Treatment	Non-Asbestos		Asbestos
				% Fibrous	% Non-Fibrous	% Type
IWI-032603-A01 260300209-0001	Transite Tiles	Gray Non-Fibrous Homogeneous	Crushed		40% Non-fibrous (other)	60% Chrysotile
IWI-032603-A02 260300209-0002	RR Tanker Car Coating	Brown Non-Fibrous Homogeneous	Crushed		95% Non-fibrous (other)	5% Chrysotile
IWI-032603-A03 260300209-0003	RR Tanker Car Coating	Brown Non-Fibrous Homogeneous	Crushed		95% Non-fibrous (other)	5% Chrysotile
IWI-032603-A04 260300209-0004	RR Tanker Car Coating	Brown Non-Fibrous Homogeneous	Crushed		95% Non-fibrous (other)	5% Chrysotile
IWI-032603-A05 260300209-0005	Boiler Door Insulation	Gray Fibrous Homogeneous	Teased	30% Cellulose	15% Non-fibrous (other)	55% Chrysotile
IWI-032603-A06 260300209-0006	Boiler Packing	Gray Fibrous Homogeneous	Teased		45% Non-fibrous (other)	55% Chrysotile
IWI-032603-A07 260300209-0007	Boiler Packing	Gray Fibrous Homogeneous	Teased		45% Non-fibrous (other)	55% Chrysotile
IWI-032603-A08 260300209-0008	Boiler Packing	Brown Fibrous Homogeneous	Teased		40% Non-fibrous (other)	60% Chrysotile
IWI-032603-A09 260300209-0009	Fire Door Insulation	Gray Fibrous Homogeneous	Teased	30% Cellulose	25% Non-fibrous (other)	45% Chrysotile

Analyst(s)

Sulamith Foltz (32)

*Sandra Sobrino*  
 Sandra Sobrino  
 or other approved signatory

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government.

Analysis performed by EMSL Chicago (NVLAP #200399-3), TDH License #30-0289



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### Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Treatment	Non-Asbestos		Asbestos
				% Fibrous	% Non-Fibrous	% Type
IWI-032603-A10 26030209-0010	Day Tank Insulation	Black Non-Fibrous Homogeneous	Dissolved		100% Non-fibrous (other)	None Detected
IWI-032603-A11 26030209-0011	Day Tank Insulation	Black Non-Fibrous Homogeneous	Dissolved		100% Non-fibrous (other)	None Detected
IWI-032603-A12 26030209-0012	Day Tank Insulation	Black Non-Fibrous Homogeneous	Dissolved		100% Non-fibrous (other)	<1% Chrysotile
IWI-032603-A13 26030209-0013	Roofing Tar Paper	Black Non-Fibrous Homogeneous	Dissolved		100% Non-fibrous (other)	None Detected
IWI-032603-A14 26030209-0014	Roofing Tar Paper	Black Non-Fibrous Homogeneous	Dissolved		100% Non-fibrous (other)	None Detected
IWI-032603-A15 26030209-0015	Roofing Tar Paper	Black Non-Fibrous Homogeneous	Dissolved		100% Non-fibrous (other)	None Detected
IWI-032603-A16 26030209-0016	Tar Paper, Water Tower	Black Non-Fibrous Homogeneous	Dissolved		100% Non-fibrous (other)	None Detected
IWI-032603-A17 26030209-0017	Tar Paper, Water Tower	Black Non-Fibrous Homogeneous	Dissolved		100% Non-fibrous (other)	None Detected
IWI-032603-A18 26030209-0018	Tar Paper, Water Tower	Black Non-Fibrous Homogeneous	Dissolved		100% Non-fibrous (other)	None Detected

Analyst(s)

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Analysis performed by EMSL Chicago (NVLAP #200399-3), TDH License #30-0289

PLM-1

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 Analysis Date: 4/7/2003

### Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Treatment	Non-Asbestos		Asbestos
				% Fibrous	% Non-Fibrous	% Type
IWI-032703-A01 260300209-0019	Stack Insulation	White Non-Fibrous Homogeneous	Crushed		100% Non-fibrous (other)	None Detected
IWI-C 32703-A02 260300209-0020	Stack Insulation	White Non-Fibrous Heterogeneous	Crushed		100% Non-fibrous (other)	None Detected
IWI-C32703-A03 260300209-0021	Stack Brick	Brown Non-Fibrous Homogeneous	Crushed		100% Non-fibrous (other)	None Detected
IWI-032703-A04 260300209-0022	Stack Brick	Brown Non-Fibrous Homogeneous	Crushed		100% Non-fibrous (other)	None Detected
IWI-032703-A05 260300209-0023	Stack Mortar	Gray Non-Fibrous Homogeneous	Crushed		100% Non-fibrous (other)	None Detected
IWI-032703-A06 260300209-0024	Stack Mortar	Gray Non-Fibrous Homogeneous	Crushed		100% Non-fibrous (other)	None Detected
IWI-032703-A07 260300209-0025	Stack Brick	Brown Non-Fibrous Homogeneous	Crushed		100% Non-fibrous (other)	None Detected
IWI-032703-A08 260300209-0025	Stack Mortar	Gray Non-Fibrous Homogeneous	Crushed		100% Non-fibrous (other)	None Detected
IWI-032703-A09 260300209-0027	Stack Insulation (Spill)	White Non-Fibrous Homogeneous	Crushed		100% Non-fibrous (other)	None Detected

Analyst(s)

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### Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Treatment	Non-Asbestos		Asbestos
				% Fibrous	% Non-Fibrous	% Type
IWI-032703-A10 260307209-0028	Stack Insulation (Spill)	White Non-Fibrous Heterogeneous	Crushed		100% Non-fibrous (other)	None Detected
IWI-032703-A11 260307209-0029	Wall Insulation Room 4 Office	Gray Non-Fibrous Homogeneous	Crushed		100% Non-fibrous (other)	None Detected
IWI-032703-A12 260307209-0030	Wall Insulation Room 4 Office	Gray Non-Fibrous Homogeneous	Crushed		100% Non-fibrous (other)	None Detected
IWI-032703-A13 260307209-0031	Wall Insulation Room 4 Office	Gray Non-Fibrous Homogeneous	Crushed		100% Non-fibrous (other)	None Detected
IWI-032703-A14 260307209-0032	Pipe Wrap, Room 4	Gray Fibrous Homogeneous	Teased	45% Cellulose	10% Non-fibrous (other)	45% Chrysotile

Analyst(s)

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